



Linux Ubuntu 26.04 Manual Pages on command 'fclose.3'

\$ man fclose.3

fclose(3) Library Functions Manual fclose(3)

NAME

fclose - close a stream

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <stdio.h>
```

```
int fclose(FILE *stream);
```

DESCRIPTION

The `fclose()` function flushes the stream pointed to by `stream` (writing any buffered output data using `fflush(3)`) and closes the underlying file descriptor.

The behaviour of `fclose()` is undefined if the `stream` parameter is an illegal pointer, or is a descriptor already passed to a previous invocation of `fclose()`.

RETURN VALUE

Upon successful completion, 0 is returned. Otherwise, EOF is returned and `errno` is set to indicate the error. In either case, any further access (including another call to `fclose()`) to the stream results in undefined behavior.

ERRORS

EBADF The file descriptor underlying stream is not valid.

The `fclose()` function may also fail and set `errno` for any of the errors specified for the routines `close(2)`, `write(2)`, or `fflush(3)`.

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

[illegible]

C11, POSIX.1-2008.

C89, POSIX.1-2001.

Note that `fclose()` flushes only the user-space buffers provided by the C library. To ensure that the data is physically stored on disk the kernel buffers must be flushed too, for example, with `sync(2)` or `fsync(2)`.

close(2), fcloseall(3), fflush(3), fileno(3), fopen(3), setbuf(3)

```
fclose(3)
```